



October 12, 2005

Mr. Mike O'Brien  
U.S. Environmental Protection Agency  
RGP-NOC Processing  
Municipal Assistance (CMU)  
1 Congress Street  
Suite 1100 (OEP-CPE)  
Boston, MA 02114-2033  
**Sent via facsimile (617) 918-0505**

Re: Notice of Intent of Remediation General Permit (RGP)  
Massachusetts Highway Department Project No. 601199-04  
Roadway Reconstruction on Eastern Avenue,  
Chelsea, MA 02150  
NPDES Exclusion MA#051-061

Dear Mr. O'Brien:

BATG Environmental, Inc. is pleased to present Notice of Intent of Remediation General Permit (RGP) for NPDES Exclusion Permit MA#051-061. This permit is being requested to support construction-dewatering activities to be conducted on the site for treatment and discharge to Chelsea Creek. The Project is being conducted for the Massachusetts Highway Department for roadway reconstruction and related work along Eastern Avenue between the intersection of Broadway and Marginal Street.

#### Project Contacts

BATG is the Environmental Consultant/Subcontractor to The Middlesex Corporation, the General Contractor. The Massachusetts Highway Department (MHD) is considered the owner of the project. Below is the contact information for each of the entities listed above. All correspondence related to this submittal should be addressed to BATG.

BATG Environmental  
448 Broadway  
Taunton, MA 02780  
Phone: 508-824-7412  
Fax: 508-880-7565  
Contact: Phil Peterson

The Middlesex Corporation  
One Spectacle Pond Road  
Littleton, MA 01460  
Phone (978) 742-4400  
Fax: (978) 742-4308  
Contact: Gordon Moore

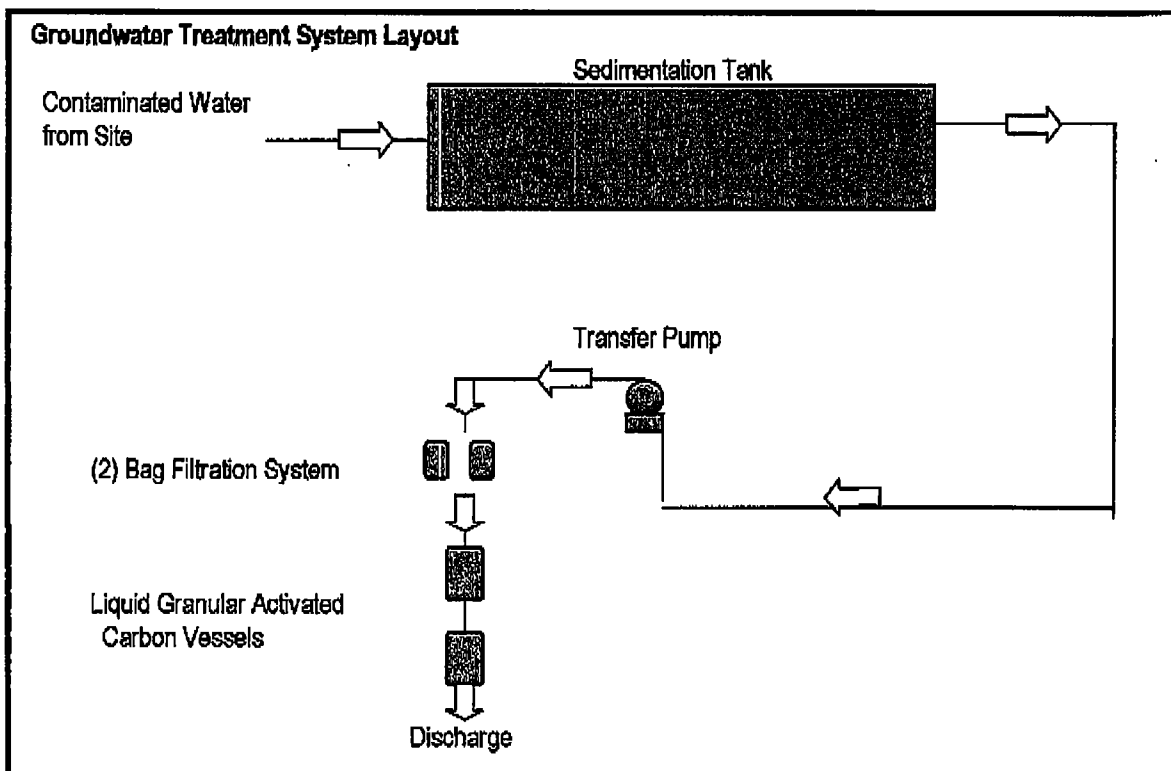
Mass Highway Department  
10 Park Plaza  
Boston, MA 02110  
Phone: (617) 973-7500  
Fax: (617) 973-8038  
Contact: Pat Trombly

**Existing Groundwater Data**

The site history and preliminary pre-characterization of soil indicates groundwater is potentially contaminated with total petroleum hydrocarbons, volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs). Below is a list of the contaminants of concern that has been created based on available data.

**Groundwater Treatment System**

The construction dewatering and treatment system has been designed for a continuous throughput of approximately 75 gallons per minute. The system is designed to treat water contaminated with organic compounds, total suspended solids, and petroleum hydrocarbons. The system consists of two pumps, a sedimentation tank, canister filtration units with bag filters, and two 1,000-pound liquid phase granular activated carbon filters. The first pump will transfer water from the excavation to the sedimentation tank. The second pump will transfer water from the sedimentation tank to the filters and effluent. Below is a schematic of the treatment system process. The effluent pipe from the groundwater treatment system will be suspended in a storm drain that discharges to the Chelsea Creek not to cause scouring or erosion to the sediment or embankments.



Should you have any questions regarding information please do not hesitate to call me at (508) 824-7412. Please forward all correspondence related to this request to BATG Environmental via fax number 508-880-7565 and the above listed address.

Sincerely,  
BATG Environmental, Inc.



Phillip Peterson  
Project Manager

Attachment - Notice of Intent of Remediation General Permit (RGP)

cc: Pat Trombly, MHD  
BATG Project File

**Attachment**

Notice of Intent of Remediation General Permit (RGP)

**B. Suggested Form for Notice of Intent (NOI) for the Remediation General Permit**

1. General site information. Please provide the following information about the site:

a) Name of facility/site: Eastern Avenue Reconstruction Project		Facility/site address: Eastern Avenue Chelsea, Massachusetts	
Location of facility/site: longitude: 71.1 latitude: 42.23	Facility SIC code(s): N/A	Street: Eastern Avenue Corridor	
b) Name of facility/site owner: Mass Highway Department		Town: Chelsea	
Email address of owner: Patricia.Trombly@MHD.state.ma.us	State: MA	Zip: 02150	County: Suffolk
Telephone no. of facility/site owner: (617) 973-7309			
Fax no. of facility/site owner: (617) 973-8038	Owner is (check one): 1. Federal 2. State/Tribal <input checked="" type="checkbox"/> 3. Private 4. other, if so, describe:		
Address of owner (if different from site):			
Street: 10 Park Plaza			
Town: Boston	State: MA	Zip: 02110	County: Suffolk
c) Legal name of operator: BATG Environmental, Inc.	Operator telephone no: (508) 824-7412		
	Operator fax no.: (508) 880-7565	Operator email: ppeterson@batgenvironmental.com	
Operator contact name and title: Philip M. Peterson, Project Manager			

Address of operator (if different from owner):		Street: 448 Broadway	
Town: Taunton	State: MA	Zip: 02780	County: Bristol
d) Check "yes" or "no" for the following: 1. Has a prior NPDES permit exclusion been granted for the discharge? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> , if "yes," number: #MA-051-061 2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> , if "yes," date and tracking #: 3. Is the discharge a "new discharge" as defined by 40 CFR 122.2? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 4. For sites in Massachusetts, is the discharge covered under the MA Contingency Plan (MCP) and exempt from state permitting? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
e) Is site/facility subject to any State permitting or other action which is causing the generation of discharge? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If "yes," please list: 1. site identification # assigned by the state of NH or MA: RTN 3-24834 2. permit or license # assigned: 3. state agency contact information: name, location, and telephone number:		f) Is the site/facility covered by any other EPA permit, including: 1. multi-sector storm water general permit? Y <input type="checkbox"/> N <input checked="" type="checkbox"/> , if Y, number: 2. phase I or II construction storm water general permit? Y <input checked="" type="checkbox"/> N <input type="checkbox"/> , if Y, number: MAR100000 3. individual NPDES permit? Y <input type="checkbox"/> N <input checked="" type="checkbox"/> , if Y, number: 4. any other water quality related permit? Y <input type="checkbox"/> N <input checked="" type="checkbox"/> , if Y, number: #MA-051-061	

**2. Discharge information.** Please provide information about the discharge, (attaching additional sheets as needed) including:

a) Describe the discharge activities for which the owner/applicant is seeking coverage:  The exclusion to the NPDES Permit was requested to support the anticipated construction dewatering activities to be conducted on the site that includes the removal of water from the construction excavation for treatment and discharge to Chelsea Creek. The Project is being conducted for the Massachusetts Highway Department for roadway reconstruction and related work along Eastern Avenue between the intersection of Broadway and Marginal Street		
b) Provide the following information about each discharge:	1) Number of discharge points:  1	2) What is the maximum and average flow rate of discharge (in cubic feet per second, ft <sup>3</sup> /s)? Max. flow 0.16 Average flow 0.11 Is maximum flow a design value? Y <input checked="" type="checkbox"/> N <input type="checkbox"/> For average flow, include the units and appropriate notation if this value is a design value or estimate if not available. Average flow is a design rate of 0.11 ft <sup>3</sup> /s
3) Latitude and longitude of each discharge within 100 feet: pt.1: long. 71.1 lat. 42.23; pt.2: long. lat.; pt.3: long. lat.; pt.4: long. lat.; pt.5: long. lat.; pt.6: long. lat.; pt.7: long. lat.; pt.8: long. lat.; etc.		

4) If hydrostatic testing, total volume of the discharge (gals):	5) Is the discharge intermittent <input checked="" type="checkbox"/> or seasonal _____? Is discharge ongoing Yes _____ No <input checked="" type="checkbox"/> ?
c) Expected dates of discharge (mm/dd/yy): start <u>06/06/05</u> end <u>12/31/06</u>	
d) Please attach a line drawing or flow schematic showing water flow through the facility including: 1. sources of intake water, 2. contributing flow from the operation, 3. treatment units, and 4. discharge points and receiving waters(s).	

3. Contaminant information. In order to complete this section, the applicant will need to take a minimum of one sample of the untreated water and have it analyzed for all of the parameters listed in Appendix III. Historical data, (i.e., data taken no more than 2 years prior to the effective date of the permit) may be used if obtained pursuant to: i. Massachusetts' regulations 310 CMR 40.0000, the Massachusetts Contingency Plan ("Chapter 21E"); ii. New Hampshire's Title 50 RSA 485-A: Water Pollution and Waste Disposal or Title 50 RSA 485-C: Groundwater Protection Act; or iii. an EPA permit exclusion letter issued pursuant to 40 CFR 122.3, provided the data was analyzed with test methods that meet the requirements of this permit. Otherwise, a new sample shall be taken and analyzed.

a) Based on the analysis of the sample(s) of the untreated influent, the applicant must check the box of the sub-categories that the potential discharge falls within.

Gasoline Only	VOC Only	Primarily Metals	Urban Fill Sites	Contaminated Sumps	Mixed Contaminants	Aquifer Testing
Fuel Oils (and Other Oils) only	VOC with Other Contaminants	Petroleum with Other Contaminants	Listed Contaminated Sites	Contaminated Dredge Condensates	Hydrostatic Testing of Pipelines/Tanks	Well Development or Rehabilitation

b) Based on the analysis of the untreated influent, the applicant must indicate whether each listed chemical is believed present or believed absent in the potential discharge. Attach additional sheets as needed.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
1. Total Suspended Solids		✓	1	Grab	sm254	10	328	N/A	N/A	N/A
2. Total Residual Chlorine	✓									
3. Total Petroleum Hydrocarbons		✓	1	Grab	8100	0.5	<500	N/A	N/A	N/A
4. Cyanide	✓									
5. Benzene		✓	1	Grab	8260	.02	<20	N/A	N/A	N/A
6. Toluene		✓	1	Grab	8260	.02	<20	N/A	N/A	N/A
7. Ethylbenzene		✓	1	Grab	8260	.02	220	N/A	N/A	N/A
8. (m,p,o) Xylenes		✓	1	Grab	8260	.02	1380	N/A	N/A	N/A
9. Total BTEX <sup>4</sup>		✓	1	Grab	3260	.02	1600	N/A	N/A	N/A

<sup>4</sup> BTEX = Sum of Benzene, Toluene, Ethylbenzene, total Xylenes.



PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
10. Ethylene Dibromide (1,2- Dibromo-methane)										
11. Methyl-tert-Butyl Ether (MtBE)		✓	1	grab	8260	0.02	<0.02	N/A	N/A	N/A
12. tert-Butyl Alcohol (TBA)	✓									
13. tert-Amyl Methyl Ether (TAME)	✓									
14. Naphthalene	✓		1	Grab	8260	0.20	<0.02	N/A	N/A	N/A
15. Carbon Tetra-chloride	✓									
16. 1,4 Dichlorobenzene	✓									
17. 1,2 Dichlorobenzene	✓									
18. 1,3 Dichlorobenzene	✓									
19. 1,1 Dichloroethane	✓									
20. 1,2 Dichloroethane	✓									
21. 1,1 Dichloroethylene	✓									
22. cis-1,2 Dichloro-ethylene	✓									
23. Dichloromethane (Methylene Chloride)	✓									
24. Tetrachloroethylene	✓									

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily Value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
25. 1,1,1 Trichloroethane	✓									
26. 1,1,2 Trichloroethane	✓									
27. Trichloroethylene	✓									
28. Vinyl Chloride	✓									
29. Acetone	✓									
30. 1,4 Dioxane	✓									
31. Total Phenols	✓									
32. Pentachlorophenol	✓									
33. Total Phthalates <sup>5</sup> (Phthalate esters)	✓									
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	✓									
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)		✓	1	grab	8270	<0.05	<0.05	N/A	N/A	N/A
a. Benzo(a) Anthracene		✓	1	grab	8270	<0.05	<0.05	N/A	N/A	N/A
b. Benzo(a) Pyrene		✓	1	grab	8270	<0.05	<0.05	N/A	N/A	N/A
c. Benzo(b) Fluoranthene		✓	1	grab	8270	<0.05	<0.05	N/A	N/A	N/A
d. Benzo(k) Fluoranthene		✓	1	grab	8270	<0.05	<0.05	N/A	N/A	N/A
e. Chrysene		✓	1	grab	8270	<0.05	<0.05	N/A	N/A	N/A

<sup>5</sup> The sum of individual phthalate compounds.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
f. Dibenzo(a,h) anthracene		✓	1	grab	8270	<0.05	<0.05	N/A	N/A	N/A
g. Indeno(1,2,3-cd) Pyrene		✓	1	grab	8270	<0.05	<0.05	N/A	N/A	N/A
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)		✓	1	grab	8270	<0.05	<0.05	N/A	N/A	N/A
h. Acenaphthene		✓	1	grab	8270	<0.05	<0.05	N/A	N/A	N/A
i. Acenaphthylene		✓	1	grab	8270	<0.05	<0.05	N/A	N/A	N/A
j. Anthracene		✓	1	grab	8270	<0.05	<0.05	N/A	N/A	N/A
k. Benzo(ghi) Perylene		✓	1	grab	8270	<0.05	<0.05	N/A	N/A	N/A
l. Fluoranthene		✓	1	grab	8270	<0.05	<0.05	N/A	N/A	N/A
m. Fluorene		✓	1	grab	8270	<0.05	<0.05	N/A	N/A	N/A
n. Naphthalene-		✓	1	grab	8270	<0.05	<0.05	N/A	N/A	N/A
o. Phenanthrene		✓	1	grab	8270	<0.05	<0.05	N/A	N/A	N/A
p. Pyrene		✓	1	grab	8270	<0.05	<0.05	N/A	N/A	N/A
37. Total Polychlorinated Biphenyls (PCBs)	✓									
38. Antimony	✓									
39. Arsenic		✓	1	grab	200.7	<0.004	36	N/A	N/A	N/A
40. Cadmium	✓									
41. Chromium III	✓									
42. Chromium VI	✓									

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
43. Copper	✓									
44. Lead		✓	1	grab	7421	<4	328	N/A	N/A	N/A
45. Mercury	✓									
46. Nickel	✓									
47. Selenium	✓									
48. Silver										
49. Zinc	✓									
50. Iron	✓									
Other (describe):										

c) For discharges where metals are believed present, please fill out the following:

<p><b>Step 1:</b> Do any of the metals in the influent have a reasonable potential to exceed the effluent limits in Appendix III (i.e., the limits set at zero to five dilutions)? Y___ N <u>✓</u></p>	<p>If yes, which metals?</p>
<p><b>Step 2:</b> For any metals which have reasonable potential to exceed the Appendix III limits, calculate the dilution factor (DF) using the formula in Part I.A.3.c) (step 2) of the NOI instructions or as determined by the State prior to the submission of this NOI. What is the dilution factor for applicable metals?  Metals: _____  DF: _____</p>	<p>Look up the limit calculated at the corresponding dilution factor in Appendix IV. Do any of the metals in the influent have the potential to exceed the corresponding effluent limits in Appendix IV (i.e., is the influent concentration above the limit set at the calculated dilution factor)?  Y___ N <u>✓</u> If "Yes," list which metals:</p>

**4. Treatment system information.** Please describe the treatment system using separate sheets as necessary, including:

a) A description of the treatment system, including a schematic of the proposed or existing treatment system:

b) Identify each applicable treatment unit (check all that apply):	Frac. tank ✓	Air stripper	Oil/water separator	Equalization tanks	Bag filter ✓	GAC filter ✓
	Chlorination	Dechlorination	Other (please describe):			

c) Proposed average and maximum flow rates (gallons per minute) for the discharge and the design flow rate(s) (gallons per minute) of the treatment system:  
Average flow rate of discharge 50 Maximum flow rate of treatment system 75 Design flow rate of treatment system \_\_\_\_\_

d) A description of chemical additives being used or planned to be used (attach MSDS sheets):

None

**5. Receiving surface water(s).** Please provide information about the receiving water(s), using separate sheets as necessary:

a) Identify the discharge pathway:	Direct_____	Within facility__	Storm drain <input checked="" type="checkbox"/>	River/brook_____	Wetlands_____	Other (describe):
------------------------------------	-------------	-------------------	---	------------------	---------------	-------------------

b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters:

Effluent of GWTS flows via a 2" rubber hose to a storm water catch basin that discharges to Chelsea Creek, which is brackish water way to Boston Harbor

c) Attach a detailed map(s) indicating the site location and location of the outfall to the receiving water:

1. For multiple discharges, number the discharges sequentially.

2. For indirect discharges, indicate the location of the discharge to the indirect conveyance and the discharge to surface water

The map should also include the location and distance to the nearest sanitary sewer as well as the locus of nearby sensitive receptors (based on USGS topographical mapping), such as surface waters, drinking water supplies, and wetland areas.

d) Provide the state water quality classification of the receiving water SB,

e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water \_\_\_\_\_ cfs  
Please attach any calculation sheets used to support stream flow and dilution calculations.

f) Is the receiving water a listed 303(d) water quality impaired or limited water? Yes ☒ No \_\_\_\_ If yes, for which pollutant(s)?  
Priority organics, unionized ammonia, organic enrichment/low DO, pathogens, oil and grease, turbidity, and taste, odor, color

Is there a TMDL? Yes \_\_\_\_ No ☒ If yes, for which pollutant(s)?

**6. Results of Consultation with Federal Services:** Please provide the following information according to requirements of Part I.B.4 and Appendices II and VII.

a) Are any listed threatened or endangered species, or designated critical habitat, in proximity to the discharge? Yes \_\_\_\_ No ☒

Has any consultation with the federal services been completed? No \_\_\_\_ or is consultation underway? Yes \_\_\_\_ No \_\_\_\_

What were the results of the consultation with the U.S. Fish and Wildlife Service and/or National Marine Fisheries Service (check one):

a "no jeopardy" opinion? \_\_\_\_ or written concurrence \_\_\_\_ on a finding that the discharges are not likely to adversely affect any endangered species or critical habitat?

b) Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility or site or in proximity to the discharge?

Yes \_\_\_\_ No ☒ Have any state or tribal historic preservation officer been consulted in this determination (Massachusetts only)? Yes \_\_\_\_ No \_\_\_\_

**7. Supplemental information. :**

Please provide any supplemental information. Attach any analytical data used to support the application. Attach any certification(s) required by the general permit.

\*Attached you will find the NPDES Exclusion #MA 051-061 for MHD Eastern Ave, Project and groundwater laboratory reports.

**U.S. ENVIRONMENTAL PROTECTION AGENCY****New England****1 Congress Street****Suite 1100****Boston, MA 02114-2023****Telephone: (617) 918-1649****FAX: (617) 918-1505**

5/18/05 (11:50)

**TO:** Mr. Phillip Peterson**OFFICE:** BATG Environmental**TELEPHONE:** \_\_\_\_\_**FROM:** Michael J. O'Brien, Municipal Permits Br.**TELEPHONE:** 617-918-1649**Subject:** NPOES Permit Exclusion Letter for MHD, Eastern Ave  
Chelsea**Comments:** 4 pages follow.





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 1  
1 CONGRESS STREET, SUITE 1100  
BOSTON, MASSACHUSETTS 02114-2023

DATE: May 18, 2005

Mr. Patrick Trombly  
Massachusetts Highway Department  
10 Park Plaza  
Boston, Massachusetts 02110

AND

Mr. Phillip M. Peterson  
Project Manager  
BATG Environmental, Inc.  
448 Broadway  
Taunton, Massachusetts 02780

Re: Massachusetts Highway Department  
Eastern Ave.; Chelsea, Massachusetts

NPDES Exclusion #MA-051-061

Dear Mr. Trombly and Mr. Peterson:

As of June 3, 2002, the On-Scene Coordinators (OSC's) in the Emergency Planning & Response Branch of EPA-New England (EPA-NE) have no longer been issuing National Pollutant Discharge Elimination (NPDES) Permit "Exclusion" letters in the states of Massachusetts and New Hampshire. EPA is, however, still the permitting authority for point source water discharge permits in these two states. Since the early 90's, EPA-NE granted exclusions to the NPDES permit process under the authority of Section 122.3(d) of the NPDES regulations to allow expedited testing and cleanup of contaminated sites for which a discharge of groundwater and incidental surface water was required following appropriate treatment. This process was necessary due to the large number of cleanups requiring permits and the time-frame necessary to issue individual NPDES permits.

Exclusion letters were developed for each site following submission and review of an application with various site information, test data, treatment type, and other facts. Discharge effluent limits, monitoring requirements and other special conditions were set out in the letters signed by the OSC in charge. Exclusion letters are now issued by the Municipal Permits Branch of the NPDES Program and signed by the Associate Director of that branch.

We are in the process of developing a new General NPDES Permit to cover short and long term discharges from remediation activities. We expect the lead time needed to become covered by the General Permit to be about the same as the current exclusion waiver process. We hope to have the General Permit published in the Federal Register as final and effective in the near future. Until the effective date of the new General Permit, EPA-NE is requesting that you provide treatment of any such discharges to waters of the United States consistent with the limits and other requirements traditionally established in the Exclusion letters process.

**Please refer to "Attachment A" to this letter for the interim requirements for discharge.**

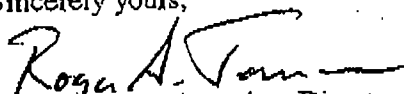
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Internet Address (URL) • <http://www.epa.gov/region1>

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If you have any questions or concerns about this process please contact Michael J. O'Brien of the NPDES Program at (617) 918-1649. Additional contacts for the NPDES Program include Olga Vergara for MA issues at (617) 918-1519 and Shelley Puleo for NH issues at (617) 918-1545. Thank you for your cooperation as we develop this new permit.

Sincerely yours,

  
Roger Janson, Associate Director  
MUNICIPAL PERMITS BRANCH

cc. State of MA/or  
State of NH

\*\*\*\*Massachusetts Highway Department\*\*\*\*  
Eastern Avenue  
Chelsea, Massachusetts

ATTACHMENT A

The discharge(s) referenced in the accompanying letter must be in accordance with the following provisions:

1. No discharge of oil, sufficient to cause a sheen (as defined in 40 CFR 110), occurs to the drainage system. The discharge of a sheen of oil or gasoline constitutes an oil spill and must be reported immediately to the National Response Center (NRC) at (800) 424-8802.
2. Security provisions are maintained to assure that system failure, vandalism, or other incidents will be addressed in a timely fashion, preventing the loss of oil or contaminated water to the drainage system.
3. The flow rate shall be maintained within acceptable operating parameters and shall not exceed the design flow of the treatment system. There shall be no bypass of the treatment system unless unavoidable to prevent loss of life, personal injury, or severe property damage. No filter backwash or other maintenance waters shall be discharged without treatment.
4. Sampling and analysis, in accordance with EPA Methods, must be performed for the following chemicals with the listed limits being applicable:

Total Suspended Solids (TSS)	30 ppm
Total Petroleum Hydrocarbons (TPH)	5 ppm
Polynuclear Aromatic Hydrocarbons (PAHs), Group I Total Isomers	10 ppb
Benzene	5 ppb
Toluene	*
Ethyl Benzene	*
Xylenes	*
The total for Benzene, Toluene, Ethyl Benzene, and Xylenes (BTEX)	----- 100 ppb
Naphthalene	20 ppb
Arsenic, Total Recoverable Metal	400 ppb
Lead, Total Recoverable Metal	30 ppb

Should sampling indicate the presence of additional chemicals, discharge concentrations should not exceed the Federal Drinking Water Standards (MCL's) or 100 ppb, whichever is lower, in the effluent.

**Solids** - These waters shall be free from floating, suspended, and settleable solids in concentrations or combinations that would impair any use assigned to this class, that would cause esthetically objectionable conditions, or that would impair the benthic biota or degrade the chemical composition of the bottom sediments.

**Color and Turbidity** - These waters shall be free from color and turbidity in concentrations or combinations that are esthetically objectionable conditions or that would impair the use assigned to this class.

Laboratory samples must be obtained from the influent to treatment, and from the effluent to the drainage system once each day for the first, third and sixth day of discharge. These samples must be analyzed with a 72-hour turnaround time. If the system is working properly, sampling for the remainder of the month shall be weekly and then monthly. Thereafter. The turnaround time for these samples shall ensure that no more than seven days pass between the sampling event and when the results are received and reviewed by the contractor.

If analysis indicates that the effluent limits have been exceeded, then the system must be shut down immediately and the problem corrected. Upon restarting the system, a sample must be taken and there must be 24 hour turnaround for the results. If the analysis indicates that the problem has been corrected, then the sampling schedule shall resume. If not, then the system shall be shut down again and repaired.

5. Analytical Reports, with quality control information, are to be reported to EPA and the MADEP or NHDES Project Manager by the 28th of the following month. Reports to EPA should be sent to:

Municipal Permits Branch (CMP)  
ATTN: Michael J. O'Brien  
Office of Ecosystem Protection  
U. S. Environmental Protection Agency  
One Congress St., Suite 1100  
Boston, MA 02114-2023

Please include assigned reference # on all correspondence.

6. You, or your contractor, must maintain copies of all analytical reports, and quality control information for a period of 3 years from the date of the report.

You should consider these requirements to be in effect immediately.



**Environmental Laboratories, Inc.**  
587 East Middle Turnpike, P.O. Box 378, Manchester, CT 06040  
Tel. (860) 645-1102 Fax (860) 645-0823

## Analysis Report

June 07, 2005

FOR: Attn: Jesse Maggs  
BATG Environmental Inc.  
448 Broadway  
Taunton, MA 02780

### Sample Information

Matrix: WATER  
Location Code: BATGTAUN  
Rush Request: RUSH24HR  
P.O.#: 05-103

### Custody Information

Collected by:  
Received by: LB  
Analyzed by: see "By" below

Date Time  
06/06/05 6:00  
06/06/05 16:30

SDG I.D.: GAG45470

Phoenix I.D.: AG45470

## Laboratory Data

Client ID: EASTERN AVE., CHELSEA DAY 1 INFLUENT

Parameter	Result	RL	Units	Date	Time	By	Reference
Arsenic	0.036	0.004	mg/L	06/06/05		M/E	200.7/6010
Lead (Furnace)	0.328	0.005	mg/L	06/07/05		RS	7421/S3113B
Total Suspended Solids	250	10	mg/L	06/07/05		PC	SM2540D
MADEP MCP 8260 Certification	Completed			06/07/05		RM	MCP
MADEP MCP 8270 Certification	Completed			06/07/05		DRC	MCP
Semi-Volatile Extraction	Completed			06/06/05		M/A	SW3510/3520
Total Metals Digestion	Completed			06/06/05		AG	
Extraction of TPH MOD 8100	Completed			06/07/05		D	3550/5030
<b>TPH by GC (Extractable Products)</b>							
Aviation Fuel/Kerosene	ND	0.5	mg/L	06/07/05		KCA	8100Modified
Fuel Oil #2/ Diesel Fuel	ND	0.5	mg/L	06/07/05		KCA	8100Modified
Fuel Oil #4	ND	0.5	mg/L	06/07/05		KCA	8100Modified
Fuel Oil #6	ND	0.5	mg/L	06/07/05		KCA	8100Modified
Motor Oil	ND	0.5	mg/L	06/07/05		KCA	8100Modified
Other Oil (Cutting & Lubricating)	ND	0.5	mg/L	06/07/05		KCA	8100Modified
Unidentified	ND	0.5	mg/L	06/07/05		KCA	8100Modified
<b>QA/QC Surrogates</b>							
% n-Pentacosane	64		%	06/07/05		KCA	8100Modified

### Aromatic Volatiles w/Napthalene

Benzene	ND	20	ug/L	06/06/05		RM	SW 8260
Ethyl Benzene	220	20	ug/L	06/06/05		RM	SW 8260
Methyl Tert Butyl Ether (MTBE)	ND	40	ug/L	06/06/05		RM	SW 8260
Napthalene	ND	20	ug/L	06/06/05		RM	SW 8260

Client ID: EASTERN AVE., CHELSEA DAY 1 INFLUENT

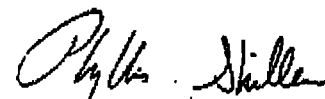
Phoenix I.D.: AG45470

Parameter	Result	RL	Units	Date	Time	By	Reference
o-Xylene	380	20	ug/L	06/06/05		RM	SW 8260
p&m-Xylene	1000	20	ug/L	06/06/05		RM	SW 8260
Toluene	ND	20	ug/L	06/06/05		RM	SW 8260
<u>QA/QC Surrogates</u>							
% BFB (Surrogate Recovery)	98		%	06/06/05		RM	SW 8260
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	5	ug/L	06/07/05		DRC	SW 8270
Acenaphthene	ND	5	ug/L	06/07/05		DRC	SW 8270
Acenaphthylene	ND	5	ug/L	06/07/05		DRC	SW 8270
Anthracene	ND	5	ug/L	06/07/05		DRC	SW 8270
Benz(a)anthracene	ND	5	ug/L	06/07/05		DRC	SW 8270
Benzo(a)pyrene	ND	5	ug/L	06/07/05		DRC	SW 8270
Benzo(b)fluoranthene	ND	5	ug/L	06/07/05		DRC	SW 8270
Benzo(ghi)perylene	ND	5	ug/L	06/07/05		DRC	SW 8270
Benzo(k)fluoranthene	ND	5	ug/L	06/07/05		DRC	SW 8270
Chrysene	ND	5	ug/L	06/07/05		DRC	SW 8270
Dibenz(a,h)anthracene	ND	5	ug/L	06/07/05		DRC	SW 8270
Fluoranthene	ND	5	ug/L	06/07/05		DRC	SW 8270
Fluorene	ND	5	ug/L	06/07/05		DRC	SW 8270
Indeno(1,2,3-cd)pyrene	ND	5	ug/L	06/07/05		DRC	SW 8270
Naphthalene	ND	5	ug/L	06/07/05		DRC	SW 8270
Phenanthrene	ND	5	ug/L	06/07/05		DRC	SW 8270
Pyrene	ND	5	ug/L	06/07/05		DRC	SW 8270
<u>QA/QC Surrogates</u>							
% Terphenyl-d14	62		%	06/07/05		DRC	SW 8270

Comments:

ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

  
 Phyllis Shiller, Laboratory Director  
 June 07, 2005



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## Analysis Report

June 07, 2005

FOR: Attn: Jesse Maggs  
BATG Environmental Inc.  
448 Broadway  
Taunton, MA 02780

### Sample Information

Matrix: WATER  
Location Code: BATGTAUN  
Rush Request: RUSH24HR  
P.O.#: 05-103

### Custody Information

Collected by:  
Received by: LB  
Analyzed by: see "By" below

Date Time  
06/06/05 6:15  
06/06/05 16:30

SDG I.D.: GAG45470

Phoenix I.D.: AG45471

### Laboratory Data

Client ID: EASTERN AVE., CHELSEA DAY 1 EFFLUENT

Parameter	Result	RL	Units	Date	Time	By	Reference
Arsenic	< 0.004	0.004	mg/L	06/06/05		M/E	200.7/6010
Lead (Furnace)	0.010	0.001	mg/L	06/07/05		RS	7421/S3113B
Total Suspended Solids	12	5.0	mg/L	06/07/05		PC	SM2540D
Semi-Volatile Extraction	Completed			06/06/05		M/A	SW3510/3520
Total Metals Digestion	Completed			06/06/05		AG	
Extraction of TPH MOD 8100	Completed			06/07/05		D	3550/5030

### TPH by GC (Extractable Products)

Aviation Fuel/Kerosene	ND	0.5	mg/L	06/07/05		KCA	8100Modified
Fuel Oil #2/ Diesel Fuel	ND	0.5	mg/L	06/07/05		KCA	8100Modified
Fuel Oil #4	ND	0.5	mg/L	06/07/05		KCA	8100Modified
Fuel Oil #6	ND	0.5	mg/L	06/07/05		KCA	8100Modified
Motor Oil	ND	0.5	mg/L	06/07/05		KCA	8100Modified
Other Oil (Cutting & Lubricating)	ND	0.5	mg/L	06/07/05		KCA	8100Modified
Unidentified	ND	0.5	mg/L	06/07/05		KCA	8100Modified

### QA/QC Surrogates

% n-Pentacosane	70		%	06/07/05		KCA	8100Modified
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### Aromatic Volatiles w/Napthalene

Benzene	ND	1.0	ug/L	06/06/05		RM	SW 8260
Ethyl Benzene	6.2	1.0	ug/L	06/06/05		RM	SW 8260
Methyl Tert Butyl Ether (MTBE)	7.3	2.0	ug/L	06/06/05		RM	SW 8260
Napthalene	ND	1.0	ug/L	06/06/05		RM	SW 8260
o-Xylene	12	1.0	ug/L	06/06/05		RM	SW 8260
p&m-Xylene	29	1.0	ug/L	06/06/05		RM	SW 8260

Client ID: EASTERN AVE., CHELSEA DAY 1 EFFLUENT

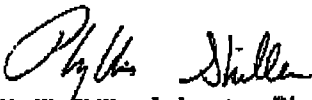
Phoenix I.D.: AG45471

Parameter	Result	RL	Units	Date	Time	By	Reference
Toluene	ND	1.0	ug/L	06/06/05		RM	SW 8260
<u>QA/QC Surrogates</u>							
% BFB (Surrogate Recovery)	99		%	06/06/05		RM	SW 8260
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	5	ug/L	06/07/05		DRC	SW 8270
Acenaphthene	ND	5	ug/L	06/07/05		DRC	SW 8270
Acenaphthylene	ND	5	ug/L	06/07/05		DRC	SW 8270
Anthracene	ND	5	ug/L	06/07/05		DRC	SW 8270
Benz(a)anthracene	ND	5	ug/L	06/07/05		DRC	SW 8270
Benzo(a)pyrene	ND	5	ug/L	06/07/05		DRC	SW 8270
Benzo(b)fluoranthene	ND	5	ug/L	06/07/05		DRC	SW 8270
Benzo(ghi)perylene	ND	5	ug/L	06/07/05		DRC	SW 8270
Benzo(k)fluoranthene	ND	5	ug/L	06/07/05		DRC	SW 8270
Chrysene	ND	5	ug/L	06/07/05		DRC	SW 8270
Dibenz(a,h)anthracene	ND	5	ug/L	06/07/05		DRC	SW 8270
Fluoranthene	ND	5	ug/L	06/07/05		DRC	SW 8270
Fluorene	ND	5	ug/L	06/07/05		DRC	SW 8270
Indeno(1,2,3-cd)pyrene	ND	5	ug/L	06/07/05		DRC	SW 8270
Naphthalene	ND	5	ug/L	06/07/05		DRC	SW 8270
Phenanthrene	ND	5	ug/L	06/07/05		DRC	SW 8270
Pyrene	ND	5	ug/L	06/07/05		DRC	SW 8270
<u>QA/QC Surrogates</u>							
% Terphenyl-d14	60		%	06/07/05		DRC	SW 8270

Comments:

ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

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 Phyllis Shiller, Laboratory Director  
 June 07, 2005

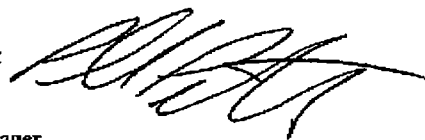


**8. Signature Requirements:** The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22, including the following certification:

*I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.*

Facility/Site Name: Eastern Avenue Reconstruction Project

Operator signature:



Title: Project Manager

Date: 10/10/05